

IN THE CLAIMS

1. A spoked bicycle wheel comprising:
a hub with a first securing portion spaced apart from a second securing portion in a direction of a longitudinal axis of the hub;
a rim;
a plurality of spoke groups of four spokes each that connect the hub and the rim, wherein two of the spokes in each spoke group are attached to the first portion of the hub and the remaining two spokes in the spoke group are attached to the second portion of the hub.
2. The wheel of claim 1 wherein the spokes of each group comprise at least one radial spoke and the remaining spokes are non-radial.
3. The wheel of claim 1 wherein each spoke grouping is equidistantly spaced from each adjacent spoke grouping.
4. The wheel of claim 1 wherein the points of attachment on the rim of the spokes of each radial member are mutually equidistant around the circumference of the rim.
5. The wheel of claim 1 wherein the spokes of each group comprise at least one spoke in a clockwise orientation.
6. The wheel of claim 1 wherein the spokes of each group comprise at least one spoke in a counter-clockwise orientation.

7. The wheel of claim 1 wherein the total of number of spokes on the wheel oriented in a clockwise direction is the same as the total number of spokes on the wheel oriented in a counter-clockwise direction.

8. A method for the assembly of a wheel for a bicycle, comprising the steps:
assembling a plurality of spoke groupings of four spokes each that connect a rim and a hub having a first securing portion spaced apart from a second securing portion in a direction of a longitudinal axis of the hub, wherein two of the spokes in each spoke group are attached to the first portion of the hub and the remaining two spokes in the spoke group are attached to the second portion of the hub; and
tensioning of the spokes in order to achieve centering of the wheel.

9. A spoke wheel having a hub and a rim connected together by a plurality of spokes, the wheel comprising:

an elongated hub having spaced apart first and second securing portions that define a plurality of spoke receiving apertures which are spaced circumferentially about a central axis through the hub;

a rim having a plurality of spoke receiving apertures defined therein; and

a plurality of spoke groups of four spokes each that connect the hub and the rim, wherein two of the spokes in each spoke group are attached to the first portion of the hub at the spoke apertures of the hub and the remaining two spokes in the spoke group are attached to the second portion of the spoke apertures of the hub, and wherein all of the spokes are attached to the spoke apertures of the rim.

10. The wheel of claim 9 wherein the spokes of each group comprise at least one radial spoke and the remaining spokes are non-radial.

11. The wheel of claim 9 wherein the spokes of each set are subdivided into equidistant pairs, each pair comprising a radial spoke and a non-radial spoke.

12. The wheel of claim 9 wherein each spoke is connected to the rim at a point equidistant from either one of two edges of the rim.

13. The wheel of claim 9 wherein the spokes of each group comprise at least one spoke in a clockwise orientation.

14. The wheel of claim 9 wherein the spokes of each group comprise at least one spoke in a counter-clockwise orientation.

15. The wheel of claim 9 wherein the total of number of spokes on the wheel oriented in a clockwise direction is the same as the total number of spokes on the wheel oriented in a counter-clockwise direction.